

(2) INFORMATION REGARDING THE SEQUENCES

SEQ ID NO: 1

TYPE OF SEQUENCE: Amino acid sequence
 SEQUENCE LENGTH: 128 amino acids
 TYPE OF MOLECULE: Mature protein SAP-2
 ORIGIN: Horny scales of psoriasis patients
 PROPERTIES: Antibiotic protein

Lys	Pro	Lys	Gly	Met	Thr	Ser	Ser	Gln	Trp	Phe	Lys	Ile	Gln	His	5	10	15
Met	Gln	Pro	Ser	Pro	Gln	Ala	Cys	Asn	Ser	Ala	Met	Lys	Asn	Ile	20	25	30
Asn	Lys	His	Thr	Lys	Arg	Cys	Lys	Asp	Leu	Asn	Thr	Phe	Leu	His	35	40	45
Glu	Pro	Phe	Ser	Ser	Val	Ala	Ala	Thr	Cys	Gln	Thr	Pro	Lys	Ile	50	55	60
Ala	Cys	Lys	Asn	Gly	Asp	Lys	Asn	Cys	His	Gln	Ser	His	Gly	Pro	65	70	75
Val	Ser	Leu	Thr	Met	Cys	Lys	Leu	Thr	Ser	Gly	Lys	Tyr	Pro	Asn	80	85	90
Cys	Arg	Tyr	Lys	Glu	Lys	Arg	Gln	Asn	Lys	Ser	Tyr	Val	Val	Ala	95	100	105
Cys	Lys	Pro	Pro	Gln	Lys	Lys	Asp	Ser	Gln	Gln	Phe	His	Leu	Val	110	115	120
Pro	Val	His	Leu	Asp	Arg	Val	Leu								125		

SEQ ID NO: 2

TYPE OF SEQUENCE: Amino acid sequence

SEQUENCE LENGTH: 45 amino acids

TYPE OF MOLECULE: Mature protein SAP-3

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: Function of an antibiotic protein

Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr Cys Arg Val Arg Gly
5 10 15

Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys Glu Glu Gln Ile
20 25 30

Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg Arg Lys Lys
35 40 45

SEQ ID NO: 3

TYPE OF SEQUENCE: Amino acid sequence

SEQUENCE LENGTH: 156 amino acids

TYPE OF MOLECULE: Pre-protein SAP-2, protein with signal sequence

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: Antibiotic protein

```

Met Ala Pro Ala Arg Ala Gly Phe Cys Pro Leu Leu Leu Leu Leu
      -25              -20              -15
Leu Leu Gly Leu Trp Val Ala Glu Ile Pro Val Ser Ala Lys Pro
      -10              -5              -1  1
Lys Gly Met Thr Ser Ser Gln Trp Phe Lys Ile Gln His Met Gln
      5              10              15
Pro Ser Pro Gln Ala Cys Asn Ser Ala Met Lys Asn Ile Asn Lys
      20              25              30
His Thr Lys Arg Cys Lys Asp Leu Asn Thr Phe Leu His Glu Pro
      35              40              45
Phe Ser Ser Val Ala Ala Thr Cys Gln Thr Pro Lys Ile Ala Cys
      50              55              60
Lys Asn Gly Asp Lys Asn Cys His Gln Ser His Gly Pro Val Ser
      65              70              75
Leu Thr Met Cys Lys Leu Thr Ser Gly Lys Tyr Pro Asn Cys Arg
      80              85              90
Tyr Lys Glu Lys Arg Gln Asn Lys Ser Tyr Val Val Ala Cys Lys
      95              100             105
Pro Pro Gln Lys Lys Asp Ser Gln Gln Phe His Leu Val Pro Val
      110             115             120
His Leu Asp Arg Val Leu
      125

```

SEQ ID NO: 4

TYPE OF SEQUENCE: Amino acid sequence

SEQUENCE LENGTH: 67 amino acids

TYPE OF MOLECULE: Pre-protein, i.e., the mature protein
SAP-3 with a signal sequence

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: As a mature protein, function of an
antibiotic protein

Met	Arg	Ile	His	Tyr	Leu	Leu	Phe	Ala	Leu	Leu	Phe	Leu	Phe	Leu
		-20					-15					-10		

Val	Pro	Val	Pro	Gly	His	Gly	Gly	Ile	Ile	Asn	Thr	Leu	Gln	Lys
		-5				-1	1				5			

Tyr	Tyr	Cys	Arg	Val	Arg	Gly	Gly	Arg	Cys	Ala	Val	Leu	Ser	Cys
	10					15					20			

Leu	Pro	Lys	Glu	Glu	Gln	Ile	Gly	Lys	Cys	Ser	Thr	Arg	Gly	Arg
	25					30					35			

Lys	Cys	Cys	Arg	Arg	Lys	Lys
	40				45	

SEQ ID NO: 5

TYPE OF SEQUENCE: Nucleotide sequence

SEQUENCE LENGTH: 384 nucleotides

TYPE OF MOLECULE: cDNA for SAP-2 that codes mature protein

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: cDNA that codes antibiotic protein

```
AAG CCC AAG GGC ATG ACC TCA TCA CAG TGG TTT AAA ATT CAG CAC 045
ATG CAG CCC AGC CCT CAA GCA TGC AAC TCA GCC ATG AAA AAC ATT 090
AAC AAG CAC ACA AAA CGG TGC AAA GAC CTC AAC ACC TTC CTG CAC 135
GAG CCT TTC TCC AGT GTG GCC GCC ACC TGC CAG ACC CCC AAA ATA 180
GCC TGC AAG AAT GGC GAT AAA AAC TGC CAC CAG AGC CAC GGG CCC 225
GTG TCC CTG ACC ATG TGT AAG CTC ACC TCA GGG AAG TAT CCG AAC 270
TGC AGG TAC AAA GAG AAG CGA CAG AAC AAG TCT TAC GTA GTG GCC 315
TGT AAG CCT CCC CAG AAA AAG GAC TCT CAG CAA TTC CAC CTG GTT 360
CCT GTA CAC TTG GAC AGA GTC CTT                                     384
```

SEQ ID NO: 6

TYPE OF SEQUENCE: Nucleotide sequence

SEQUENCE LENGTH: 135 nucleotides

TYPE OF MOLECULE: cDNA for SAP-3 that codes the mature protein

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: cDNA that codes antibiotic protein

GGA ATC ATA AAC ACA TTA CAG AAA TAT TAT TGC AGA GTC AGA GGC 045
GGC CGG TGT GCT GTG CTC AGC TGC CTT CCA AAG GAG GAA CAG ATC 090
GGC AAG TGC TCG ACG CGT GGC CGA AAA TGC TGC CGA AGA AAG AAA 135

SEQ ID NO: 7

TYPE OF SEQUENCE: Nucleotide sequence

SEQUENCE LENGTH: 468 nucleotides

TYPE OF MOLECULE: cDNA for SAP-2 that codes pre-protein,
SAP-2 with signal sequence

ORIGIN: Horny scales of psoriasis patients

PROPERTIES: cDNA that codes antibiotic protein

ATG GCA CCG GCC AGA GCA GGA TTC TGC CCC CTT CTG CTG CTT CTG 045
CTG CTG GGG CTG TGG GTG GCA GAG ATC CCA GTC AGT GCC AAG CCC 090
AAG GGC ATG ACC TCA TCA CAG TGG TTT AAA ATT CAG CAC ATG CAG 135
CCC AGC CCT CAA GCA TGC AAC TCA GCC ATG AAA AAC ATT AAC AAG 180
CAC ACA AAA CGG TGC AAA GAC CTC AAC ACC TTC CTG CAC GAG CCT 225
TTC TCC AGT GTG GCC GCC ACC TGC CAG ACC CCC AAA ATA GCC TGC 270
AAG AAT GGC GAT AAA AAC TGC CAC CAG AGC CAC GGG CCC GTG TCC 315
CTG ACC ATG TGT AAG CTC ACC TCA GGG AAG TAT CCG AAC TGC AGG 360
TAC AAA GAG AAG CGA CAG AAC AAG TCT TAC GTA GTG GCC TGT AAG 405
CCT CCC CAG AAA AAG GAC TCT CAG CAA TTC CAC CTG GTT CCT GTA 450
CAC TTG GAC AGA GTC CTT 468

SEQ ID NO: 8

TYPE OF SEQUENCE: Nucleotide sequence
SEQUENCE LENGTH: 201 nucleotides
TYPE OF MOLECULE: cDNA for SAP-3 that codes the pre-
protein (signal sequence and mature
protein)
ORIGIN: Horny scales of psoriasis patients
PROPERTIES: cDNA that codes antibiotic protein

ATG AGG ATC CAT TAT CTT CTG TTT GCT TTG CTC TTC CTG TTT TTG 045
GTG CCT GTC CCA GGT CAT GGA GGA ATC ATA AAC ACA TTA CAG AAA 090
TAT TAT TGC AGA GTC AGA GGC GGC CGG TGT GCT GTG CTC AGC TGC 135
CTT CCA AAG GAG GAA CAG ATC GGC AAG TGC TCG ACG CGT GGC CGA 180
AAA TGC TGC CGA AGA AAG AAA 201